how the Great Columbia-Shamrock Yacht Race Will Be Run

From the standpoint of absolute purity, broad disinterestedness, high motive and general interest, no other sport or sporting event can even compare with the international yacht races as sheduled for Oct. 2, 5, 7, 9, and 11, outside the harbor of New York. These saces represent ideas that must appeal even to the most siothful citizen. They mean almost as much to the man who has never seen a sailboat as to the influsiant who table yachting all witter and sails all summer.

With these races it is not simply a feet of tags to patrol the course, the total and sheed between two sized yachts. It is not simply a feet of skill and sheed between two sized yachts. It is not simply a feet of tags to patrol the course, will watch the contest with the kennest interest, for the success or failure of the yacht Columbia will mean he saccess or failure of American skill over the skill of the world. The Shamrock, the challenging yacht, comes not atons as the representative of Great Britan and the representative of Great Britan and the fed man Russian, French, Durch and other yachtsmen are about as keenly concerned in the outcome as are the Brit-

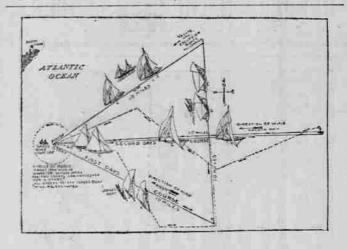
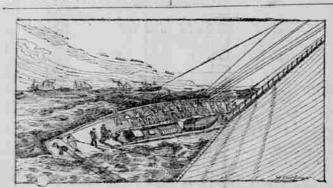


Diagram of Courses. The First Will Be a Triangular Course; the Second 15 Miles Straight to Windward and Return. Dotted Lines Show Course Taken to Beat to Windward and Round Stake Boats. The Best 3 Out of 5 Races Will Decide the Fate of the Cup.



How the Columbia's Crew Lie Out on the Deck "Like Fish to Dry," So as Not to Catch Any Wind and Thus Impede the Progress of the Yacht.

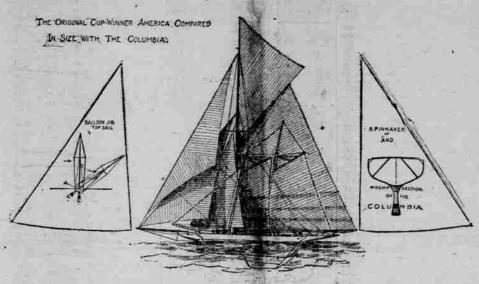
Not to Catch Any Wind and These Impede the Progress of the Yacht.

picked experts, from the captain down. These men must be quartered outside of the vessel herself, for, like all racers, the Columbia has absolutely no accommodation below deek. She is simply a huge shell 120 feet long and about eighten feet deep. Standing on the platform which serves for her deek, one can see through the batchway right down to her bottom. Inside there is nothing except a series of steel sinders and braces. When the races are over, and if her owners choose, the Columbia may be fitted up with cabins. But even if this is the case, all such cabin work, flooring, etc., would be ripped out again as soon as she was ready to enter another race.

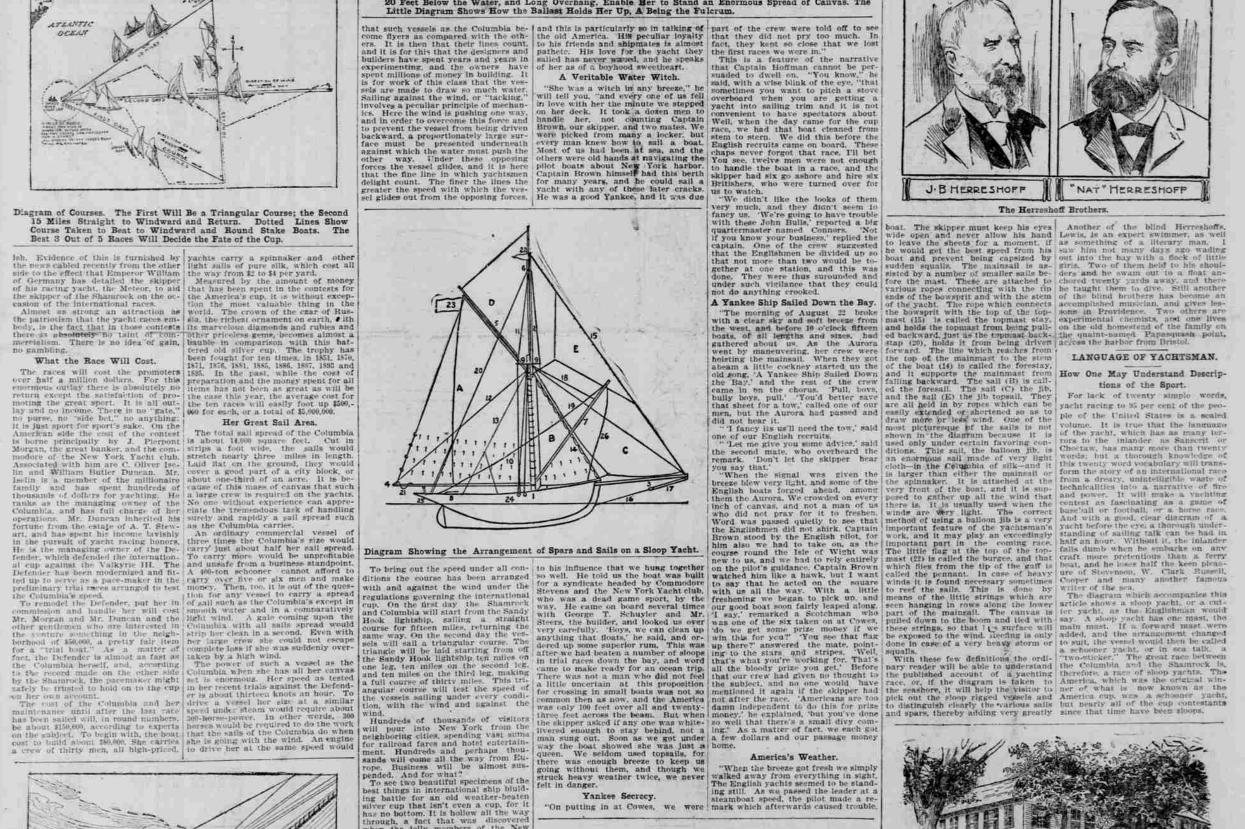
Unable to find room on the yacht, her crew are, therefore, unartised about do to be done on the yacht, her crew are, therefore, caustised amount of resistance that must be alway to see a mount of the columbia of the Columbia and the Shamrock draw about eighteen feet of water. This goes To maintain this tender and to red the crew alone coats somewhere in the neighborhood of Export. The Defender likewise is equipped with a tender for her crew, the cost of which is little less than that of the Columbia.

It is when sailing against the wind local prophy.

Captain Henry Hoffman, therefore, is the only one who can tell us from a for three hours sailing maximum speed, or three hours, salling maximum speed, or three hours, salling maximum speed, or three hours, allowing twelve days for cross-long the sails of a vessel such as the Columbia would have given power and have given power and hours. The sailing have no power and the first and have red as a vessel such as the Columbia would have given power and had the following and these traces. Not the least interesting features about these races. Not the least interesting features and fitting them out, there is any number of boats in New York and elsewing distance them in the first than the first with all the collembia in her following and it was sume of mon



Though the Columbia is but Two Fest Longer Than the America on the Water Line, Her Ninety-ton Ballast 20 Fest Below the Water, and Long Overhang, Enable Her to Stand an Enormous Spread of Canvas. The Little Diagram Shows How the Ballast Holds Her Up, A Being the Fulcrum.



tion, with the wind and against the wind.

Hundreds of thousands of visitors will pour into New York from the neighboring cities, spending vast aumafor railroad fares and notel entertainment. Hundreds and perhaps thousands will come all the way from Europe. Business will be almost suspended, And for what?

To see two beautiful specimens of the best things in international ship billding battle for an old weather-beaten silver cup that isn't even a cup, for it has no bottom. It is hollow all the way through, a fact that was discovered when the folly members of the New York Yacht club tried to toast the original champion, the schooner yacht. America, which won the trophy in 1851 on the other side. The Hop's, that was poured into the cup at the top ran out at the bottom. But the fact that the cup is hollow, and wouldn't fetch \$190 in the open market, only adds to the zest of the hattle for its possession.

It is the embodiment of true sport.

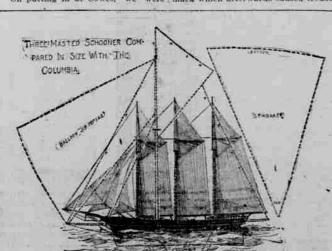
The Old America.

So far as it is possible to find out, there is but one survivor today of the original crew that sailed across the ocean in the old yacht America in 1851 and returned with the international

here was enough breeze to keep us joing without them, and though we struck heavy weather twice, we never left in danger.

Yankee Secrecy.

"On putting in at Cowes, we were "and the leader at a steamboat speed, the pilot made a remark which afterwards caused trouble.



In Addition to the Columbia's Ordinary Sail Area (AAA) She Carries a Balloon Jib Topsail and a Spinnaker. With This Additional Area the Difference in Spread of Canvas May Be Seen.

boarded by nearly every small called the harbor. Captain Brown had called us all aft before making port, and cautioned us against talking. 'You needn't say anything about our centerboard door what we draw,' he said, adding that Mr. Stevens had offered to sail anything in England, and there would be a race. Not a day passed that the Then we were boarded by greater deck did not swarm with visitors, and crowds than ever, and were not cleared

of the charge really until the America was put into dry dock. No one could understand how the Aurora was beand as this. She finished about half an hour beind us, and this time would have been tripled had not a strong breeze come up after we had crossed the line.

Use of Mainsail.

The principal sail of a sloop is the mainsail (A). It is held in place by the ropes and tackle shown at (2) These ropes are called the sheets, and they are by all odds the most important ropes connected with a yacht. The skill of a yachteman is based largely on his ability to let out or take in these sheets, thereby giving the sail more or less wind. The speed of the yacht is dependent very largely upon the exactness with which the mainsail is managed. If the wind is behind the boat the sheets will, of course, be cased out until the mainsail stands and the possible. In sailing duto the wind or "by the wind," as the old scame say, the sheets are thaven in very close; in other words, the yacht is "close-hauled," so that the mainsail stands all most parallel with the length of the length of the wind; or the wind is other words, the yacht is "close-hauled," so that the mainsail stands all wide certing into line, beat the steamer hound up from New York.



J.B HERRESHOFF



"NAT" HERRESHOFF

The Herreshoff Brothers.



The Herreshoff Homestead, Bristol, Me.

Mother of Herreshoffs.

Across the street from the Herreshoff shipyards in Bristol, where the Defender and the Columbia were built; there stands an old country house with a generous New England "stoop." In front of it there is a row of magnificent trees, and it looks out upon the Bay of Bristol. Sometimes in pleasant weather a little old woman in black comes out and sits for awhile with one of her daughters and watches the stately yachts come up the harbor from Newport and Fall River. She is the mother of all the Herreshoffs. Last February she celebrated her eighty-ninth birthday, and she was yet hale enough to take pride in the Columbia as she was building in the shops. She is a descendant of the famous family of Lewises of Boston, merchants and shipmen, and she brings to the present branch of the family much of its skill as ship designers and builders.

Her husband, Charles Frederick Herreshoff, died thirteen years ago, leav-

It is supposed, to begin with, that the reader knows that the extreme forward tip of a yacht is called the stem, that the forward portion is called the bow, that the rear end is called the stern, and that the sties of the boat are the beams. Every one also knows that the keel of a yacht is the portion which cuis deepest into the water, and it is in the construction of the keel that the greatest changes and progress have been made in yachting. Every one who reads the papers knows of the discussions which have sone on for years as to the comparative value of the center-board keel—a board which lets down sidewise from the interior of the boat through the bottom, the finkeel, which is a deep, sharp, in-like projection on the bottom of the boat, the bulb fin and the ordinary cutter keel.

How a Yacht Is Rigged.

chipmen, and branch of the lit as ship de-lit as ship de-frederick Her-ears ago, leav-very best and straightest spruce tim-